MedSolutions

Presentation to:

Senate and House Appropriations Committee on Health and Human

Services



Current NC Programs

Advanced Imaging

- Prior Authorization for high-tech radiology services
- Includes:
 - CT, CTA
 - MR, MRA
 - PET & PET/CT
 - Outpatient imaging services

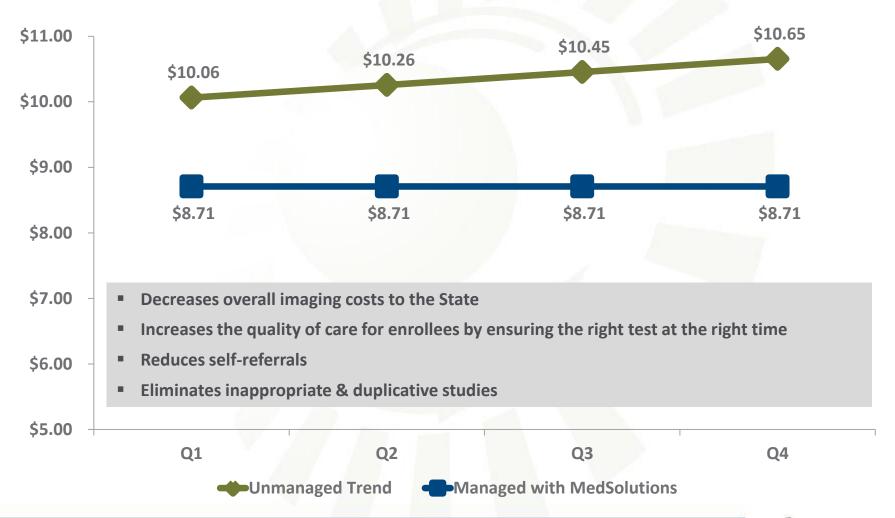
Ultrasound

- Prior Authorization for Obstetrical and Non-Obstetrical Ultrasounds
- Includes:
 - Obstetrical Related
 - Breast
 - Fetal Echo
 - Non-cardiac transesophageal
 - Pediatric
 - Non-pediatric General
 - Gynecological
 - Vascular and/or Urovascular
 - Intravascular
 - Echocardiography
 - Ultrasound-Guided Procedures



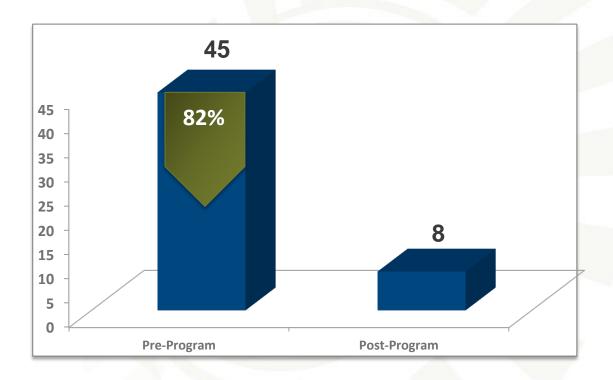
2010 North Carolina Program Results

Saved the State \$21.5 MM in 2010 (MR, CT, PET and Ultrasound)



Increased Patient Safety

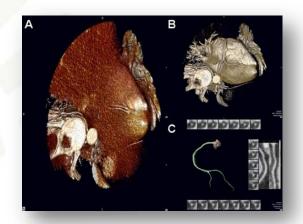
Pregnant Women Aid Category - CT





Increase in the Use of Cardiology Imaging

- Cardiovascular imaging was found to represent approximately 30% of all diagnostic imaging, growing more than twice as rapidly as other imaging¹
- Approximately 75% of nuclear stress tests (MPI) and cardiac CT studies were performed in physician offices²
- This increase in cardiovascular imaging procedures is not related to changes in disease prevalence or severity³
- It has been difficult to tie the increase in cardiovascular imaging to improved health outcomes³



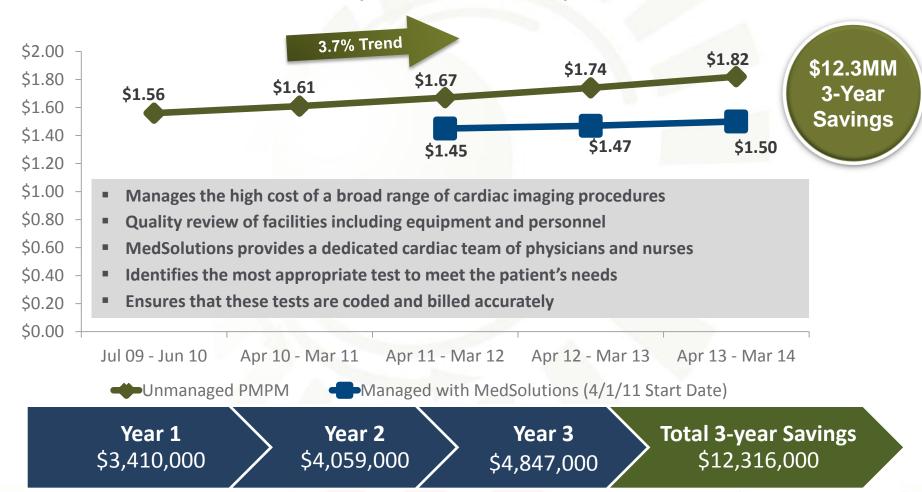
- 1. Levin, D.C., Rao, V.M. Recent Trends in Utilization of Cardiovascular Imaging: How Important Are They For Radiology. Journal of American College of Radiology. September 2005
- 2. Chen, Jersey; Einstein AJ. Cumulative Exposure to Ionizing Radiation from Diagnostic and Therapeutic Cardiac Imaging Procedures. Journal of the American College of Cardiology. July 7, 2010
- 3. Bonow, R.O., Is Appropriateness Appropriate? J Am Coll Cardiol, 2008; 51:1290-1291, doi:10.1016/j.jacc.2007.12.022



Projected Savings for Cardiology Program

State of North Carolina Cardiology Savings

(1,268,757 Members)



Misdiagnosis: A Critical Concern

Journal of the American Medical Association (JAMA):

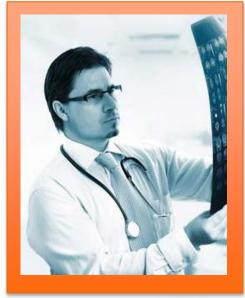
– Lethal diagnostic errors in 5% of autopsies

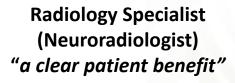
- Mayo Clinic Proceedings:
 - Misdiagnosis in **26%** of Medical ICU deaths
- 1999 Journal Radiology:
 - Diagnostic error rates of <u>25% 32%</u>
- 2010 Radiological Society of North America (RSNA)
 - Misdiagnosis rates of 33%
- Wall Street Journal
 - Diagnostic errors drive $\underline{40\%}$ of malpractice cases





Whom would you choose to read your brain scan?







Specialist: 34% Greater Accuracy



General Radiologist

Clinical Radiology 2008, 63(7), 791-5

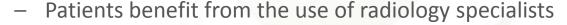
... But specialists are underutilized in radiology

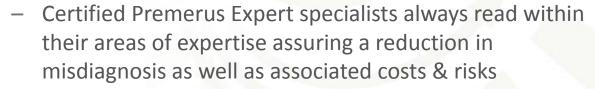


Premerus Diagnostic Accuracy

The only comprehensive, proven solution to the problem of misdiagnosis

Premerus utilizes technology and certified radiology subspecialists to ensure every image is read by the appropriate specialist, therefore, delivering a more accurate diagnosis to improve quality of care and outcomes, while reducing costs









Projected Savings with Premerus



Example 1st Year Savings* **\$17,584,000**

*Depending on the Regions Involved

